



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
Store 1 - Cowen [RO#149061]
Machine Id
JOHN DEERE 648L2 1DW648LBKNF715642
Component
Rear Axle
Fluid
JOHN DEERE HY-GARD HYD/TRANS (9 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0048935	LEC0041084	---
Sample Date		Client Info		17 Apr 2024	17 Jul 2023	---
Machine Age	hrs	Client Info		834	427	---
Oil Age	hrs	Client Info		834	427	---
Filter Age	hrs	Client Info		407	427	---
Oil Changed		Client Info		Not Changed	Not Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

PQ		ASTM D8184		121	77	---
Iron	ppm	ASTM D5185m	>750	266	209	---
Chromium	ppm	ASTM D5185m	>11	1	1	---
Nickel	ppm	ASTM D5185m	>10	1	2	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>21	2	1	---
Lead	ppm	ASTM D5185m	>49	7	7	---
Copper	ppm	ASTM D5185m	>101	66	60	---
Tin	ppm	ASTM D5185m	>10	6	4	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

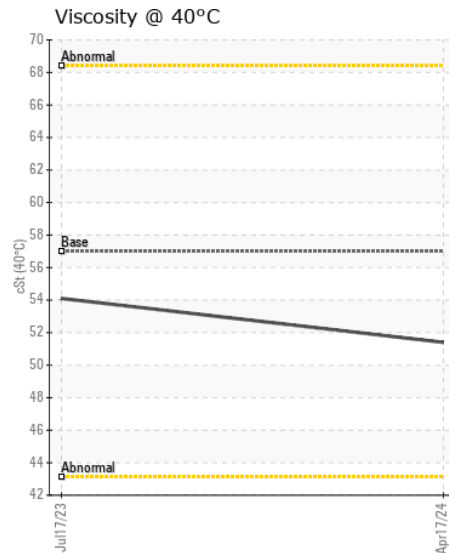
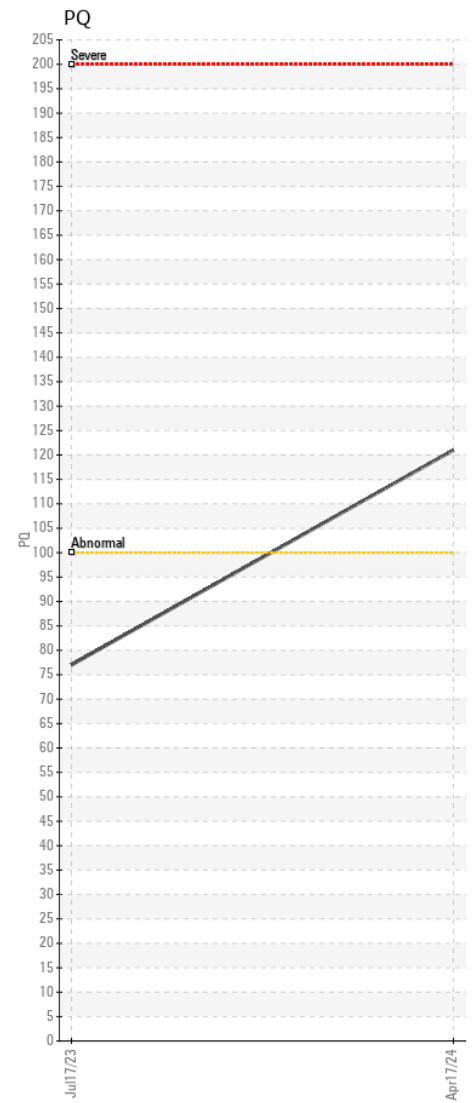
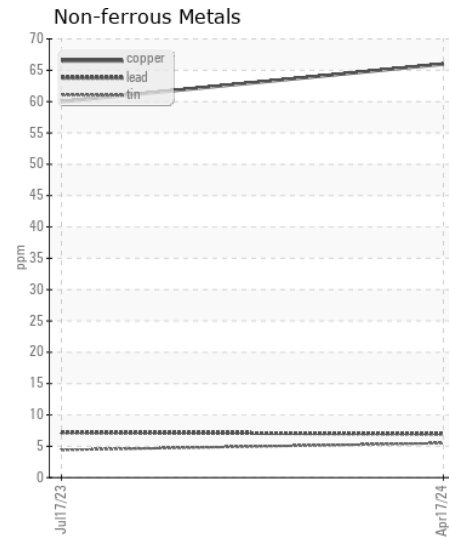
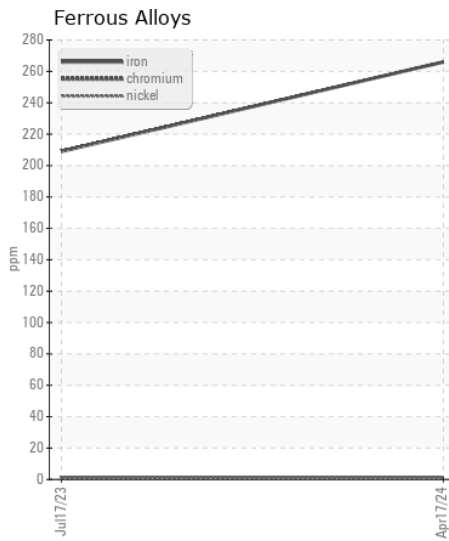
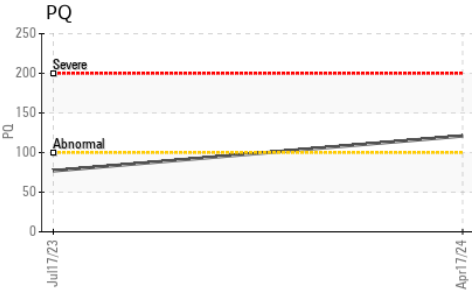
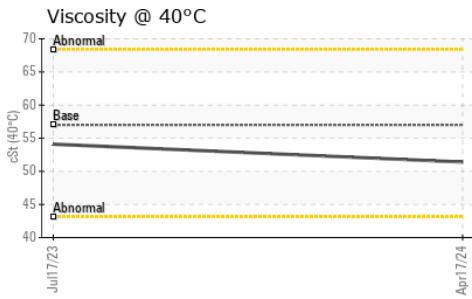
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>31	11	10	---
Potassium	ppm	ASTM D5185m	>20	0	0	---
Water		WC Method	>0.1	NEG	NEG	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	---

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>51	12	9	---
Boron	ppm	ASTM D5185m	6	0	3	---
Barium	ppm	ASTM D5185m	0	4	0	---
Molybdenum	ppm	ASTM D5185m	0	2	<1	---
Manganese	ppm	ASTM D5185m		7	8	---
Magnesium	ppm	ASTM D5185m	145	84	97	---
Calcium	ppm	ASTM D5185m	3570	3213	3546	---
Phosphorus	ppm	ASTM D5185m	1290	928	1017	---
Zinc	ppm	ASTM D5185m	1640	978	1203	---
Sulfur	ppm	ASTM D5185m		3767	4643	---
Visc @ 40°C	cSt	ASTM D445	57.0	51.4	54.1	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0048935 **Received** : 19 Apr 2024
Lab Number : 06154770 **Tested** : 22 Apr 2024
Unique Number : 10990193 **Diagnosed** : 22 Apr 2024 - Wes Davis
Test Package : CONST (Additional Tests: PQ)

LESLIE EQUIPMENT COMPANY
 105 TENNIS CENTER DR.
 MARIETTA, OH
 US 45750-9765
 Contact: LEANNE KENDALL
 KendalLeanne@lec1.com

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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